May 28, 2015

Lindsey A. Visser

University of Miami:
Cooperative Institute for Marine and Atmospheric Studies
National Oceanic and Atmospheric Administration
Atlantic Oceanographic and Meteorological Laboratory

Ocean Chemistry Division
Research Associate II
4301 Rickenbacker Cswy
Miami, FL 33149
(305) 361-4416
Lindsey.Visser@noaa.gov

EDUCATIONAL EXPERIENCE

- Texas A&M University, College Station, TX — August 2009
  M.S. in Biological Oceanography
- Texas A&M University, Galveston, TX — May 2006
  B.S. in Marine Biology

PROFESSIONAL EXPERIENCE

- Atlantic Oceanographic and Meteorological Lab — Nov. 2009 - Present
  Research Associate II,
  Ocean Chemistry and Ecosystems Division, Miami, FL
- Intro to Oceanography 252 Lab — 2007 - 2009
  Teaching Assistant
  Texas A&M University, College Station, TX
- Microbial Ecology and Biogeochemistry Lab — 2006 – 2007
  Research Assistant
  Texas A&M University, College Station, TX
- Microbiology Seafood Safety Lab — 2005 – 2006
  Laboratory Technician II
  Texas A&M University, Galveston, TX

OCEANOGRAPHIC CRUISE EXPERIENCE

- RV Walton Smith — 2011 - 2015
  South Florida Hydrographic Survey, Atlantic/Gulf, 5 days bimonthly — 46 Days
- RV Virginia Kay — 2010 - 2014
  South Florida Hydrographic Survey, Florida Bay, 3 days bimonthly — 64 Days
- RV Whipray — 2011 - 2015
  Juvenile Spotted Seatrout Assessment, Florida Bay, 5 days monthly — 95 Days
- RV Hildebrand — 2011
  Florida Area Coastal Environment, Atlantic, 2 days monthly — 24 Days
- BAE Orion — Sept. 2008
  Joint Regional Oceanographic Cruise, Galapagos, Ecuador, Pacific — 21 Days
- RV Pelican — July 2008
  Mechanisms Controlling Hypoxia (MCH) 12, Gulf of Mexico — 4 Days
- RV Acadiana — May 2008
  Brazos River Rapid Response, Gulf of Mexico — 1 Day
- RV Pelican — April 2008

Mechanisms Controlling Hypoxia (MCH) 11, Gulf of Mexico 4 Days

- RV Ronald H. Brown Dec. 2007 – Jan. 2008
  P18 Clivar CO2 Repeat Hydrography Cruise, Pacific 35 Days
- RV Pelican August 2007
  Mechanisms Controlling Hypoxia (MCH) 10, Gulf of Mexico 5 Days
- RV Roamin Empire August 2007
  Brazos River Rapid Response, Gulf of Mexico 1 Day
- RV Pelican July 2007
  Mechanisms Controlling Hypoxia (MCH) 9, Gulf of Mexico 5 Days
- RV Ronald H. Brown March 2007
  Joint Regional Oceanographic Cruise, Galapagos, Ecuador, Pacific 21 Days

Sea Days: 328

TECHNICAL SKILLS

Oceanographic Cruise Skills

- Primary fieldwork at AOML is Juvenile sportfish and water quality monitoring in Florida Bay, Everglades National Park.
- Skilled at identifying juvenile sportfish in Florida Bay, using an otter trawl, coastal navigation and small boat handling.
- Performed seagrass surveys using Braun-Blanquet cover and species identification.
- Served as chief scientist on RV Walton Smith for one trip and RV Hildebrand for 6 trips. All sampling and data collection was done according to certification from Florida Department of Health (non-potable water- general chemistry).
- Operated CTD console and seabird software, deployed/recovered CTD rosettes, box cores, LADCP, Argo Floats, XBT's, drifters.
- Sampled CTD for O_2, tCO_2, N_2O, salinity, nutrients, chlorophyll, DOC, DIC, CDOM, tritium, helium, Si_{32}, $\delta^{18}O$, $\Delta^{13}C$, chlorophyll, H_2S, and ^{14}C.
- Operated Autosal salinometer for salinity measurements.
- Developed a method for sediment porewater sampling.
- Assembled shipboard gas chromatograph-mass spectrometer systems, and an air-seawater equilibrator.
- Performed neuston tows, otter trawls, plankton tows, and associated species identification as well as seagrass surveys.
- Conducted marine mammal and avian observations including species identification and enumeration.
- Conducted squid capture and dissection for statolith recovery.
- Experienced in small boat handling and working in harsh field conditions, i.e. salt marshes, oyster reefs, and long trips at sea.

Laboratory Skills

- Primary laboratory work at AOML is in analytical environmental chemistry and data analysis of ecosystem and environmental databases.

- Performed colorimetric nutrient analysis on the nutrient autoanalyzer (SEAL AA3) for analysis of NH_4, NO_3, NO_2, PO_4, and SiO_3 according to EPA methods.
- Performed water chemistry spectrophotometric analysis including pH, Fe (II), total phosphorus, carbohydrates, and chlorophyll a, phaeophytin.
- Maintained National Environmental Laboratory Accreditation (NELAC) for the Florida Department of Health non-potable water- general chemistry certification.
- Managed databases for Walton Smith, Virginia Kay, and Whipray cruises including QC/QA of data.
- Performed Data analysis of water quality and ecosystem data including multivariate statistical analysis.
- Developed a gas chromatographic method for analyzing N_2O in seawater. Proficient in *μECD* Gas Chromatography, headspace analysis, and air-sea gas exchange calculations.
- Performed sediment core incubations, and productivity incubations.
- Analyzed acid polysaccharides/ extracellular polymeric substances from epipelic diatoms in salt marsh sediments using the dye alcian blue.
- Performed Winkler oxygen titrations.
- Proficient in IEXX method for wastewater examination, as well as DNA filtration, and Crypto/Giardia filtration.
- Monitored and enumerated *Vibrio spp.* in Galveston Bay oysters for the Texas Department of State Health Services using ELISA technique, gene probe procedures, and MPN analysis. FDA certified for microbial analysis of seawater and shellfish.
- Familiar with cell staining, (Gram, DAPI) counting procedures, epiflourescence microscopy, and growth media preparation.
- Performed microbial fecal coliform tests and species identification using biochemical tests (carbohydrate, citrate, starch, gelatin, indole, MRVP, catalase, oxidase).
- Cultured (batch, chemostat) marine epipelic diatoms, *Artemia,* and *Rotifera.* Proficient in mariculture techniques.
- Software skills: Excel, Surfer, Sigma Plot, Sigma Stat, Primer, Kaleidograph, Grapher, Labview, SEAL AA3, Seabird software suite, Parallels.

PRESENTATIONS

- Greater Everglades Ecosystem Restoration Conference, Coral Springs, FL 2015
  Presentation: Juvenile sportfish monitoring in Florida Bay, Everglades National Park.
- Gulf of Mexico Coastal Ocean Observing System workshop, 2012
  Sanibel Captiva Conservation Foundation Marine Laboratory, FL
  Presentation: AOML's South Florida Program
- Texas A&M University, College Station, TX 2009
  Thesis defense: Nitrous Oxide Production in the Gulf of Mexico Hypoxic Zone.
- Estuarine Research Federation, Providence, RI. 2007
  Poster: Thornton, D. C. O. and Visser, L. A. Measurement of Acid Polysaccharides (APS) in Coastal Sediments.

PUBLICATIONS

- Kelble, C., Browder, J., Visser, L., Powell, A. (2014) Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park. Monitoring and Assessment Plan results from 2004 through 2013. 2014 Report to the US Army Corps of Engineers, Jacksonville District, and the RECOVER group of the Comprehensive Everglades Restoration Project.
- Kelble, C., Browder, J., Visser, L., Powell, A. (2013) Juvenile Sportfish Monitoring in Florida Bay, Everglades National Park. Monitoring and Assessment Plan results from 2004 through 2012. 2013 Report to the US Army Corps of Engineers, Jacksonville District, and the RECOVER group of the Comprehensive Everglades Restoration Project.
- Visser, L. A. (2009). Nitrous Oxide Production in the Gulf of Mexico Hypoxic Zone. Masters Thesis, Texas A&M University.
- Thornton, DCO and Visser, LA (2009). Acid polysaccharides associated with photosynthetic biofilms in a saltmarsh. *Aquatic Microbial Ecology* 54:185-198.

RESEARCH INTERESTS

- Juvenile sportfish and seagrass habitat response to changing salinity patterns in Everglades National Park.
- Nitrogen cycling in estuarine systems.
- Eutrophication and anthropogenic impacts on coastal ecosystems.
- Nitrous Oxide production associated with hypoxic and oxygen minimum zones.

HONORS/ AWARDS

- Pathways to the Doctorate Fellowship, Texas A&M University 2006 - 2008

CERTIFICATIONS

- NOAA Small Boat Operator certification 2012 – Present
  with NOAA small boat component and
  USGC boating skills and seamanship courses
- Florida Department of Health: 2011 – 2013
  non-potable water- general chemistry
  National Environmental Laboratory Accreditation
- FDA and Texas Department of State Health Services 2006
  Bacteriological Examination of Shellfish and Seawater
- PADI Open Water Diver Certification 2003

DIVISIONAL SERVICE

- Treasurer, NOAA Buoys and Gulls club 2014 - Present
- Recruitment and Academic Advisory Committee (RAAC) 2007 – 2008
  Texas A&M University
- Biological Division Student Representative, 2007 – 2009
  Department of Oceanography, Texas A&M University